

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A riding simulation system for providing an operator with a pseudo-experience of running conditions of a motorcycle by displaying scenery seen to the rider as a video image on a display based on the operating condition of operation by the operator, said riding simulation system comprising:

a steering handle mechanism gripped and operated by the operator;

a step mechanism comprising a brake pedal and a gear change pedal which are operated by the feet of the operator;

a connection shaft for connecting said steering handle mechanism and said step mechanism to each other, said connection shaft provided to be extendable and ~~contractable~~ contractible along the axial direction thereof; and

a frame body having a cylindrical portion and at least two main frames,

wherein said steering handle mechanism is mounted at upper portions of the cylindrical portion at least two main frames and the connection shaft is disposed midway between and is supported by is mounted to lower portions of the at least two main frames.

2. (Original) The riding simulation system as set forth in claim 1, wherein said connection shaft is provided to be inclinable relative to said steering handle mechanism or said step mechanism.

3. (Original) The riding simulation system as set forth in claim 1, further comprising a vibrator for a dummy engine vibration.

4. (Previously Presented) The riding simulation system as set forth in claim 1, further comprising means for giving a reaction force in a direction opposite to a turning direction of said steering handle mechanism.

5. (Currently Amended) A riding simulation system for providing an operator with a pseudo-experience of a running condition of a motorcycle by generating a vibration based on the operating condition by the operator, said riding simulation system comprising:

a vibrator for a dummy engine vibration in a steering handle mechanism;

a taper surface portion formed at an inner circumferential surface of a steering handle pipe constituting said steering handle mechanism, said taper surface portion gradually decreasing in diameter from the side of an end portion of said steering handle pipe; and

a bracket having an engaging portion for engagement with said end portion of said steering handle pipe, having an outer circumferential surface gradually decreasing in diameter from the side of said engaging portion, and being inserted into said taper surface portion while holding said vibrator,

wherein the bracket includes a pair of brackets,

wherein each of the brackets includes a recess on an inner surface thereof, and when the brackets are mated together, the recesses of the mating brackets form a space in which the vibrator is disposed, wherein recesses have flat inner faces that oppose each other for engaging with left and right flat sides of the vibrator.

6. (Currently Amended) A riding simulation system comprising a vibrator for a dummy engine vibration in a steering handle mechanism and providing an operator with a pseudo-experience of a running condition of a motorcycle by generating a vibration based on the operating condition by the operator, said riding simulation system comprising:

a bracket having an enclosed hollow space, the bracket being screw-engaged with an end portion of a steering handle pipe constituting said steering handle mechanism, wherein said vibrator is inserted into the inside of said steering handle pipe in the state of being held by said bracket,

wherein the vibrator includes an eccentrically mounted weight extending from an outer end of the vibrator so as to be disposed in the enclosed hollow space, and

wherein the hollow space includes two flat inner faces that oppose each other for engaging with left and right flat sides of the vibrator.

7 (Currently Amended) A riding simulation system comprising a vibrator for a dummy engine vibration in a steering handle mechanism and providing an operator with a

pseudo-experience of a running condition of a motorcycle by generating a vibration based on the operating condition by the operator,

wherein said vibrator is inserted in a bracket and held in an inside of one end portion of a steering handle pipe constituting said steering handle mechanism, and a predetermined gap is formed between an outer circumferential portion of said one end portion of said steering handle pipe and a steering handle grip attached to said outer circumferential portion,

wherein the bracket includes a pair of brackets,

wherein each of the brackets includes a recess on an inner surface thereof, and when the brackets are mated together, the recesses of the mating brackets form a space in which the vibrator is disposed, and

wherein the recesses have flat inner faces opposing each other for engaging with left and right flat sides of the vibrator.

8 (Original) The riding simulation system as set forth in claim 7, wherein said steering handle grip is a throttle grip.

9. (Original) The riding simulation system as set forth in claim 7, wherein said steering handle pipe is comprised of a single pipe communicating one end portion, on which said throttle grip is mounted, and the other end portion to each other.

10. (Original) The riding simulation system as set forth in claim 8, wherein said steering handle pipe is comprised of a single pipe communicating one end portion, on which said throttle grip is mounted, and the other end portion to each other.

11. (Currently Amended) A riding simulation system for providing an operator with a pseudo-experience of running conditions of a motorcycle by displaying scenery seen to the rider as a video image on a display based on an operating condition upon an operation by the operator and detecting a gear change by a sensor provided at a gear change pedal, said riding simulation system comprising:

click generating means for generating a click feeling similar to a gear change in an actual motorcycle when a gear change is made by operating said gear change pedal,

wherein the click generating means comprises a single ball member and triangular cover member ~~provided with a~~ having a single rectangular hole portion formed therein in which the single ball member is engaged when said gear change pedal is in a center position.

12. (Currently Amended) A riding simulation system as set forth in claim 11, when a gear change is made by operating said gear change pedal, said single ball member is released from said single rectangular hole portion and thereafter again engaged in said single rectangular hole portion, whereby a click sound and a vibration are generated.

13. (Currently Amended) A riding simulation system for providing an operator with a pseudo-experience of running conditions of a motorcycle by displaying scenery seen to the rider as a video image on a display based on an operating condition of a dummy operating mechanism operated by the operator, said riding simulation system comprising:

a handle mechanism for operating a steering handle with a handle shaft portion as a turning fulcrum by said operator,

a frame portion including a cylindrical portion into which the handle shaft portion is inserted, and first to third main frames connected at equal angular intervals from left, right, and front sides of the cylindrical portion, a plurality of the first to third main frames for supporting said steering handle shaft portion, and

a single spring for giving a reaction force in a direction opposite to the turning direction of said steering handle when said steering handle is operated, wherein said single spring is provided with a pair of clamping portions projected outwards from said steering handle shaft portion so as to clamp external surfaces of one of the main frames therebetween.

14. (Original) The riding simulation system as set forth in claim 13, wherein elastic members are interposed between said pair of clamping portions of said spring and said frame.

15. (Currently Amended) The riding simulation system as set forth in claim 3, further comprising:

a taper surface portion formed at an inner circumferential surface of a steering handle pipe constituting said steering handle mechanism, said taper surface portion gradually decreasing in diameter from the side of an end portion of said steering handle pipe; and

a bracket having an engaging portion for engagement with said end portion of said steering handle pipe, having an outer circumferential surface gradually decreasing in diameter from the side of said engaging portion, and being inserted into said taper surface portion while holding said vibrator

wherein the bracket includes a pair of brackets,

wherein each of the brackets includes a recess on an inner surface thereof, and when the brackets ~~at-mated-are mated~~ together, the recesses of the mating brackets form a space in which the vibrator is disposed wherein recesses have flat inner faces that oppose each other for engaging with left and right flat sides of the vibrator.

16. (Previously Presented) The riding simulation system as set forth in claim 3, further comprising:

a bracket having a hollow space, the bracket being screw-engaged with an end portion of a steering handle pipe constituting said steering handle mechanism, wherein said vibrator is inserted into the inside of said steering handle pipe in the state of being held by said bracket,

wherein the vibrator includes an eccentrically mounted weight extending from an outer end of the vibrator so as to be disposed in the hollow space.

17. (Previously Presented) The riding simulation system as set forth in claim 4, further comprising:

a single spring for giving a reaction force in a direction opposite to the turning direction of said steering handle when said steering handle is operated, wherein said single spring is provided with a pair of clamping portions projected outwards from said steering handle shaft portion so as to clamp external surfaces of one of the at least two main frames therebetween.

18. (Currently Amended) The riding simulation system as set forth in claim 5, further comprising:

a step mechanism comprising a brake pedal and a gear change pedal which are operated by the feet of the operator;

a connection shaft for connecting said steering handle mechanism and said step mechanism to each other, said connection shaft provided to be extendable and ~~contractable~~ contractible along the axial direction thereof; and

a frame body having a cylinder portion and at least two main frames,

wherein said steering handle mechanism is ~~mounted at upper portions of the at least two main frames~~ is supported by the cylinder portion and the connection shaft is disposed

~~midway between and is supported by mounted to lower portions of the at least lower~~
~~portions of two of the first to third main frames.~~

19. (Currently Amended) The riding simulation system as set forth in claim 11,
further comprising:

a step mechanism comprising a brake pedal and a gear change pedal which are
operated by the feet of the operator;

a connection shaft for connecting said steering handle mechanism and said step
mechanism to each other, said connection shaft provided to be extendable and contractable
along the axial direction thereof; and

~~a frame body having at least two main frames;~~

~~wherein said steering handle mechanism is mounted at upper portions of the at least~~
~~two main frames and the connection shaft is disposed midway between and is supported by~~
~~mounted to lower portions of the at least lower portions of two of the first to third main~~
frames.